



Winston H. Hickox  
Agency Secretary

# Air Resources Board

Alan C. Lloyd, Ph.D.  
Chairman

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Gray Davis  
Governor

January 24, 2002

To: Vapor Recovery Manufacturers/Stakeholders:

Pressure drop limits are specified for vapor recovery components on balance vapor recovery systems in the Certification Procedure, CP-201; however, it does not contain a pressure drop allowance for In-Station Diagnostics (ISD) components. The Air Resources Board encourages vapor recovery manufacturers to design and specify equipment with a lower dynamic pressure drop than the maximum allowed. Balance systems seeking certification with ISD could use lower pressure drop components so that the overall total pressure drop is not exceeded.

CP-201, Section 2.2 states:

“Any applicant may request certification to a performance specification that is more stringent than the minimum performance standard or specification. The performance specification to which a system or component is certified shall be the minimum allowable level of performance the component is required to meet throughout the warranty period. Typical performance specifications include, but are not limited to, pressure drop and pressure integrity.”

The maximum pressure drop values for balance components and the Phase II vapor recovery system, per CP-201 Section 5.2, are listed in the table below:

Component	Maximum Pressure Drop (inches H <sub>2</sub> O at 60 CFH Nitrogen)	Maximum Pressure Drop (inches H <sub>2</sub> O at 80 CFH Nitrogen)
Nozzle	0.08	Not Applicable
Hose (including Whip Hose)	0.09	
Breakaway	0.04	
Dispenser	0.08	
Swivel	0.01	
Phase II Riser to UST	0.05	
ISD Component(s)	None Provided	0.62
Pressure Drop from Nozzle to UST	0.35	

*The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our Website: <http://www.arb.ca.gov>.*

California Environmental Protection Agency

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During certification testing the Air Resources Board will test and verify the components' pressure drops as well as the pressure drop of the Phase II vapor recovery system.

If you have questions or need additional information, please contact Tom Scheffelin at (916) 322-8922 or by email at [tscheffe@arb.ca.gov](mailto:tscheffe@arb.ca.gov), or Joe Guerrero at (916) 324-9487 or via email at [jguerrer@arb.ca.gov](mailto:jguerrer@arb.ca.gov).

Sincerely,

### **Signed Copy on File**

George Lew, Chief  
Engineering and Certification Branch  
Monitoring and Laboratory Division

cc: Rosa Salcedo, San Diego County APCD